



(11)

EP 4 371 762 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
17.07.2024 Bulletin 2024/29

(51) International Patent Classification (IPC):
B32B 5/02 (2006.01) **B32B 5/06 (2006.01)**
B32B 5/10 (2006.01) **B32B 5/26 (2006.01)**

(43) Date of publication A2:
22.05.2024 Bulletin 2024/21

(52) Cooperative Patent Classification (CPC):
B32B 5/026; B32B 5/022; B32B 5/024;
B32B 5/028; B32B 5/06; B32B 5/10; B32B 5/26;
A43B 1/0027; A43B 1/0072; A43B 1/02; A43B 1/04;
A43B 23/0205; A43B 23/0235; A43B 23/026;
A43B 23/0265;

(Cont.)

(21) Application number: 24150112.1

(22) Date of filing: 30.11.2017

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA MD

(30) Priority: 03.02.2017 US 201762454474 P
21.08.2017 US 201762548258 P

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
17822830.0 / 3 576 937

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(54) FIBER-BOUND ENGINEERED MATERIALS FORMED USING ELEMENT SCRIMS

(57) A fiber-bound engineered material is provided that imparts an intended characteristic at an intended relative location. A fiber layer is entangled with additional fibers in a manner to create a non-uniform engineered material. The lack of uniformity of a fiber-bound engineered material may be accomplished through manipulation of the fibers and/or through fiber binding a scrim. The fiber layer binds with additional fibers through ent-

tanglement such that a mechanical connection between the entangled fibers is provided. This entanglement allows the fibers to bind without supplemental adhesives, interlacing, or connections. Variations in the fibers and/or inclusion of scrim materials prior to entanglement allows for an intended characteristic (e.g., a functional characteristic) at an intended relative location (e.g., a position determined by an article to be formed therefrom).

(52) Cooperative Patent Classification (CPC): (Cont.)
A43C 5/00; B32B 2437/02



EUROPEAN SEARCH REPORT

Application Number

EP 24 15 0112

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50	The present search report has been drawn up for all claims		
55	Place of search The Hague	Date of completion of the search 6 June 2024	Examiner Hillebrand, Gerhard
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ON EUROPEAN PATENT APPLICATION NO.

EP 24 15 0112

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EPO FORM P0459

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